

Title (en)
STIRRER

Title (de)
RÜHRER

Title (fr)
AGITATEUR

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Application
EP 12880931 A 20120713

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Abstract (en)
[origin: EP2873453A1] The present invention is designed to provide a stirrer capable of finely dispersing or emulsifying well. A stirrer in which: the stirrer is provided with a rotating rotor (2) equipped with multiple blades (12) and a screen (9) that is placed around the rotor (2) and has multiple slits (8); the blade (12) and the slits (8) are provided at least with matching regions that are at the same position in the axial direction of the rotor rotation axis (13); and the fluid being processed is discharged outward from inside the screen (9) as an intermittent jet flow through the slits (8) as a result of the rotation of the rotor (2). The stirrer is characterized in that when the maximum external diameter of the rotor (2) in the matching region is (D) (m), the rotation frequency of the rotor (2) is (N) (times/s), the number (12) is (X) and the number of slits (8) is (Y), the circumferential velocity (V) (m/s) of the rotor (2) rotation is represented by equation (1) and the frequency (Z) (kHz) of the intermittent jet flow is represented by equation (2) ($V = (D) \times (\pi) \times (N)$), ($Z = (N) \times (X) \times (Y) / 1000$) and the circumferential velocity (V) is set to be $23 \text{ m/s} < (V) < 37 \text{ m/s}$ and the frequency (Z) is set to be $35 < (Z) < 45$.

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Citation (search report)
• [XA] WO 2012023609 A1 20120223 - MEIJI CO LTD [JP], et al
• See references of WO 2014010094A1

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